"MICOX" ELECTRIC DRILLS

Micox Drills have been designed to meet the demand for a high grade precision Drill. The motor is mounted in ball bearings and is well balanced. The gear wheels are made of chrome nickel steel specially hardened and ground, and the body of special aluminium alloy, of great strength. The following special features should be noted:

OFFSET SPINDLE.—The spindle is offset, thus enabling the drill to be used in corners and inaccessible places generally.

SWITCH.—Instead of the ordinary American trigger pattern switch, a novel and safe trigger has been designed which makes it impossible for the operator to injure his finger.

CONNECTING PLUG.—The body of the plug is armoured with an aluminium cover and the plug is reversible. It can, therefore, be connected either to bayonet-type lamp sockets or to ordinary two-pin wall plugs. The armoured cover eliminates strain on the wire connections.

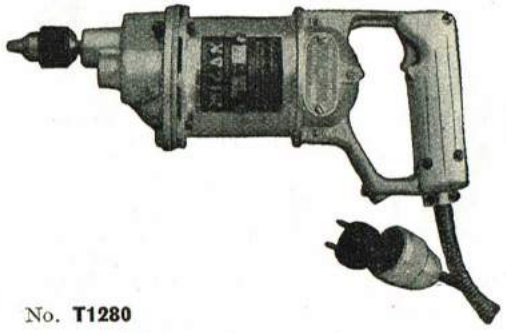
EARTHING WIRE.—Micox Drills are fitted with an earthing wire in accordance with Board of Trade Regulations.

CONSTRUCTION.—To obviate the possibility of threads stripping, all screw-holes in Micox Aluminium Castings are tapped into steel liners. Screws are dispensed with wherever possible, bolts being substituted for them, thus increasing the strength and reliability of the drill. The motor shaft is mounted in S.K.F. ball bearings and the spindle is supplied with thrust ball bearings. The larger size drills, which can be delivered with Morse Taper Adapter, are supplied with a steel collet and nut, and the twist drills can therefore be removed without the use of a drift. The usual drift slot is dispensed with and dirt cannot enter the bearings, and there is no danger of burning out the armature, which is often due to the fact that the operator forgets to remove the drift before starting the machine.

GUARANTEE.—Any machines or parts which may break down, due to a defect in material or workmanship, within a period of twelve months of date of sale, will be replaced or repaired free of charge.

CURRENT.—Micox Drills are generally supplied with Universal Motors, and they can therefore be connected equally as well to the lighting circuit whether this is A.C. or D.C. as long as the voltage corresponds to the rating stamped on the rating plate. The Universal Drills are usually rated from 110–125 volt, from 190–220 volt, and finally from 220–250 volt. The bigger type drills can also be delivered to be employed at two- or three-phase current.

¼ in. Revolver Grip Drill.—Designed with revolver grip handle and high revolution for rapid and continued drilling. Its well-balanced grip and trigger makes it easy to operate, and it is therefore employed to great advantage for assembling works for drilling steel and wood. This machine is recommended for the steel worker, building contractor, and millwright, and is also specially adapted for production work where constant operation and reliability is essential.



No. **T1280**

DIMENSIONS AND PRICES

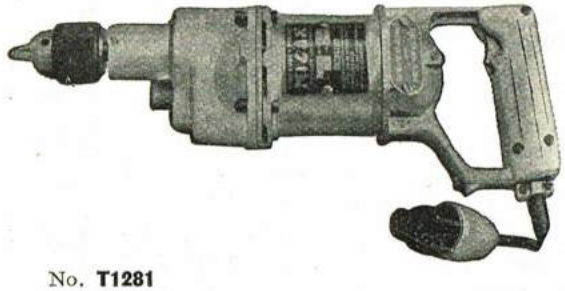
Capacity in Steel	¼ in.
„ „ Wood	⅜ „
„ of Chuck	¼ „
Consumption in Watts	200
Spindle, single speed, no load	2,500 r.p.m.
Weight	6 lb.

No. **T1280**. Price—¼ in. Drill, complete with 15 ft. cable, connecting plug, and key for chuck **£6 0 0**

No. **T1280a**. Price—Bench Stand for brushing and small grinding **0 10 0**

Upon request, special drills revolving at 1,200 r.p.m. can be supplied at an extra cost of **5/–** per unit.

⅜ in. Revolver Grip Drill.—Specially constructed for production work where a drill of this capacity is required, and on account of its comparatively light weight and sturdy construction, is recommended by us in factories for structural work, and garages for valve reseating, etc. Woodworkers and body builders can use the drill to great advantage.



No. **T1281**

DIMENSIONS AND PRICES

Capacity in Steel	⅜ in.
„ „ Wood	½ „
„ of Chuck	⅜ „
Consumption in Watts	350
Spindle, single speed, no load	1,600 r.p.m.
Weight	8 lb.

No. **T1281**. Price—⅜ in. Drill, complete with 15 ft. cable, connecting plug, and key for chuck ... **£7 4 0**

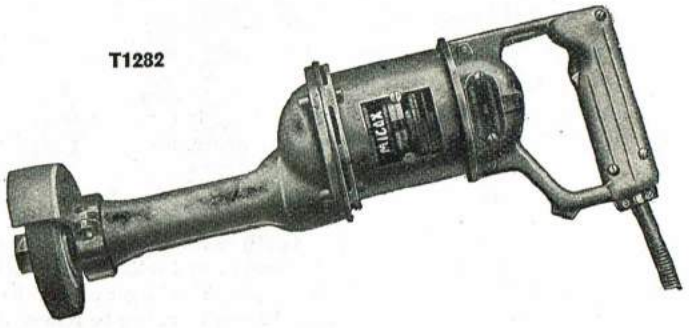
No. **T1281a**. Price—Bench Stand for brushing and small grinding **0 10 0**

Upon request, special drills revolving at respectively 900 r.p.m. or 450 r.p.m. can be supplied at an extra cost of **5/–** per unit.

"MICOX" ELECTRIC TOOLS

4 in. Wheel Portable Grinder.—This Grinder embodies all the essential characteristics of the Micox Portable Drills, together with best standard practice in grinder design and construction. The Grinder is ideal for grinding or smoothing weldings, casting ridges, and can also be used to great advantage for grinding marble and granite. It replaces a file and chisel generally, and is therefore indispensable where such tools are in daily use. No workshop can afford to be without a portable grinder.

T1282



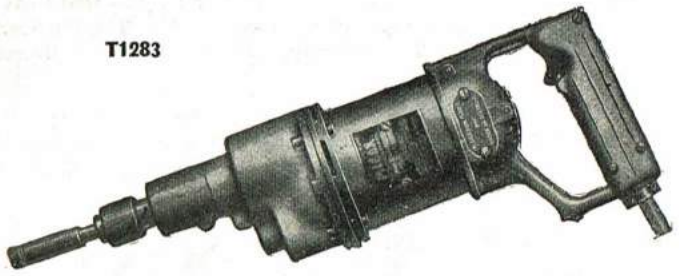
Measurement of wheel	4 × ¾ × 9/16 in.
Spindle speed, no load	5,000 r.p.m.
Weight	9 lb.

No. **T1282**. Price—complete, including 1 wheel, 15 ft. cable, and plug **£8 10 0**

The motor is "Universal" and it can therefore be connected to any voltage corresponding to its rating.

⅜ in. Screwdriver.—An excellent tool for driving screws of maximum ⅜ in. diameter in wood. However, when employed at its maximum capacity it is recommended to drill a small hole before operating. A loose steel socket guides the driving point to grip the slot of the screw in an easy and correct manner. The Micox Screwdriver has found a market in nearly all industries, and has considerably reduced labour costs.

T1283



Maximum screwing capacity	⅜ in.
Spindle speed, no load	450 r.p.m.
Weight	8½ lb.

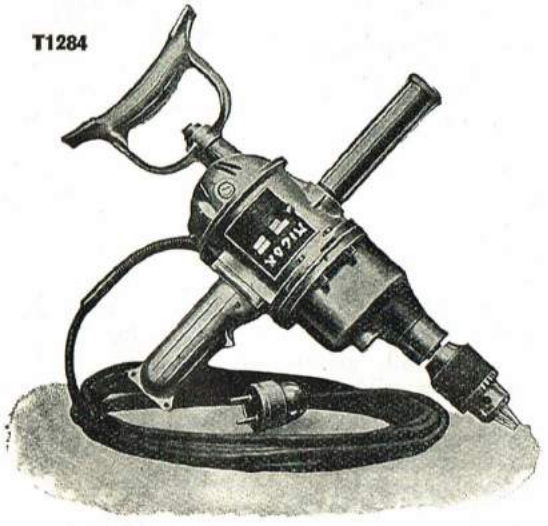
No. **T1283**. Price—complete with 2 tools, ⅜ in. and 5/16 in. diam., 15 ft. cable, and plug **£8 0 0**

Upon request, and at an extra charge of **£1 10s.**, the Screwdriver can be supplied reversible, so that it can equally well unscrew the screws when changed to operate in an opposite direction.

⅜ in. Two-handle Drill.—This Drill runs at a high speed and is specially designed for continuous work at its maximum capacity. High-speed drills of this pattern are recommended; all the types are supplied with a three-jaw pattern drill chuck. The key for the chuck is neatly housed inside the side handle, which prevents loss of same.

½ in. Two-handle Drill.—Similar in design to the ⅜ in. drill but runs at a lower speed, and is specially recommended for use in repair shops, garages, and for electrical work generally. Its slow speed enables the use of carbon steel drills. Its great power and light weight make it an ideal tool for maintenance use, for all kinds of drilling. The drill is furnished with a spirit level, permitting the operator to ensure exact horizontal drilling. It can be supplied with a Morse Taper No. 1 Adapter, or a three-jaw drill chuck.

T1284



DIMENSIONS AND PRICES

Type.	No. **T1284** Heavy Duty ⅜ in.	No. **1284a** Standard ½ in.
Capacity of Drill in Steel	⅜ in.	½ in.
,, ,, Wood	½ ,,	5/8 ,,
Capacity of Chuck	⅜ ,,	½ ,,
Adapter	Chuck	Chuck or Morse Taper
Speed	900 r.p.m.	400 r.p.m.
Consumption in Watts	350	350
Weight	10 lb.	11 lb.
Drill, complete with Morse Taper No. 1 Adapter	—	**£7 10 0**
,, ,, Chuck	**£7 8 0**	**8 4 0**
½ in. Drill Chuck with Arbor	—	**0 18 0**

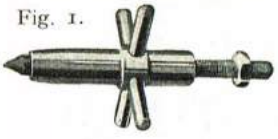
"MICOX" ELECTRIC TOOLS

⅝ in. Two-speed Drills.—This type is constructed with two speeds, which ensures the correct speed being used for a given size drill with no increase in weight—over drills with only a single speed. The Micox Two-speed Gear will give a two-to-one ratio and at the same time double the power. The change of speed is obtained by a simple movement of a knurled knob. The cover at the end can be instantly removed without disturbing any part of the motor, allowing the commutator, brushes, and interior of the drill to be examined. It is fitted with a Morse Taper No. 1 Adapter, and a loose drill chuck can be supplied.

⅞ in. Two-speed Drill.—Similar in design to the ⅝ in. Two-speed Drill, but is more powerful, and is supplied with a Morse Taper No. 2 Adapter. There are no screws in aluminium, as these are a source of weakness in many tools, and all parts are bolted together with steel bolts and nuts. On account of its two speeds and very offset spindle, it is an extremely popular drill for board ship use, constructional work, and workshop use generally.

The Two-speed Type Drills can be supplied with a Feed Screw as Fig. 1, and can also be delivered in Hardwood Box with complete range of Twist Drills (Fig. 2).

Fig. 1.



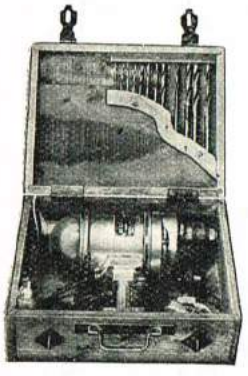


Fig. 2.

DIMENSIONS

Type.	No. T1285 ⅝ in.	No. T1285a ⅞ in.
Capacity of Drill	⅝ in.	⅞ in.
Morse Taper of Adapter ...	No. 1	No. 2
Speed ... ... {Fast	700 r.p.m.	500 r.p.m.
Speed ... ... {Slow	350 „	250 „
Consumption in Watts... ...	500	500
Weight, Universal Motor ...	14 lb.	15 lb.
„ Two- or Three-phase Motor	16 „	17 „
Drill, complete with 15 ft. of cable and plug	£10 0 0	£11 0 0
½ in. Three-jaw Chuck with arbor	0 18 0	0 16 0
Feed Screw	0 15 0	0 15 0
Hardwood Box	1 0 0	1 0 0
Set of Drills (12)	0 12 0	0 16 0

Fig. 3.—Universal Stand.

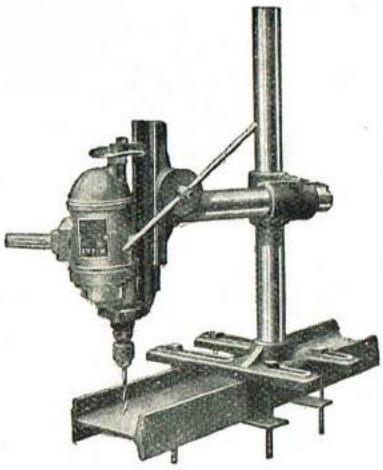


Fig. 4.—Universal Stand employed on constructional work.

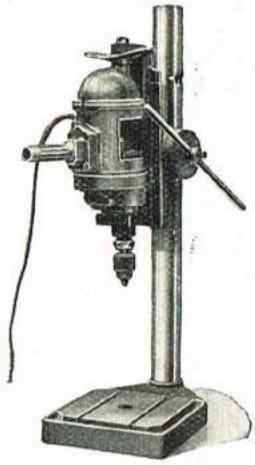


Fig. 5.—Simple Stand.

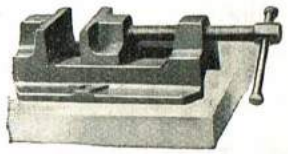


Fig. 6.

Micox Universal Drill Stands (Fig. 3).—This Stand is ideal for constructional work and has a 7 in. Sensitive Hand Feed Slide, and an adjustable arm which permits drilling in any direction with 18 in. radius from column. It is the only real Universal Stand on the market, and has therefore been found of great use in repair shops. The base is of steel and the column and adjustable arm are made of seamless drill steel tubes. The Universal Stand can also be delivered without Table (Fig. 4).

Micox Simple Drill Stand (Fig. 5).—Similar in design to the Universal Stand, but is not adjustable and is therefore mostly used for ordinary bench drilling, and combine in a practical way a Bench Drill with a Portable Drill.

A TABLE VICE for holding tubes, or odd shaped material whilst being drilled, can easily be fitted to Table (Fig. 6).

PARTICULARS OF STANDS

	Simple Stand.	Universal Stand.
Maximum distance of drill from column	7 in.	20 in.
„ height from the table ...	22 „	18 „
Sensitive hand feed slide	7 „	7 „
Diameter of column	2⅜ in.	2⅜ in.
„ table	8 × 8 in.	10 „
Weight of Stand complete ...	54 lb.	75 lb.
„ „ without table ...	—	54 „
	No. T1286	No. T1286a
Price complete	£5 6 0	£8 0 0
„ of Vice, including Bolts	1 0 0	1 0 0